

Circuit design Bodacious Robo | x New Tab

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Bodacious Robo

All changes saved

Code Start Simulation Send To

Components Basic

Search

Vibration Motor DC Motor Micro Servo

Hobby Gearmotor NPN Transistor LED RGB

Diode Photoresistor Soil Moisture Sensor

Ultrasonic Distance PIR Sensor Piezo

ENG INTL 16:55 18-09-2022

```

#include<Servo.h>

Servo s;

Int t=2;

Int e=3;

Int l=11;

Void setup()
{
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(l,OUTPUT);
  pinMode(13,OUTPUT);
  pinMode(4,INPUT);
  s.attach(5);
  Serial.begin(9600);
}

Void loop()
{
  //ultrasonic sensor used to indicatate BULB glowing and Door open(servo motor)
  digitalWrite(t,1);
  digitalWrite(t,0);
  delayMicroseconds(10);
  digitalWrite(t,0);
  float dur=pulseIn(e,1);
  float dis=(dur*0.0343)/2;
  Serial.print("distance:");
  Serial.println(dis);
  If(dis>150){
    digitalWrite(l,0);
    s.write(180);
  }
}

```

```

}
Else{
digitalWrite(l,1);
s.write(0);
}

//Temprature sensor
Double a= analogRead(A0);
Double t= (((a/1024)*5)-0.5)*100;
Serial.print("temprature value:");
Serial.println(t);
Delay(1000);
If(t>100)
digitalWrite(13,1);
else
digitalWrite(13,0);
delay(1000);
//PIR sensor
digitalWrite(13,0);
int a1=digitalRead(4);
Serial.println(a);
If(a1==1){
Serial.println("motion detected:");
digitalWrite(13,1);
}
Delay(1000);
}

```